BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS IN WARD NO.01 OF YELAHANKA SUB DIVISION

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Estimate Cost Rs. 10.01 Lakhs Rate	Amount
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)KPWD S.R 2016-17								
		Cum							
	for Drain		1	114.00	0.80	0.80	72.96		
	for Culverts		2	6.00	1.60	1.30	24.96		
					Total Qty		**97.92**	222.38	**21775.20**
	Basic Rate	189.00							
	AD-HOC 11%	20.79							
	Sub-Total	209.79							
	Area Weightage @ 6%	12.59							
	Total	**222.38**							
2	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
	Average Weight of Earth 1.28 Tonne/Km				Qty Vide Item No.1		**97.92**	111.00	**10869.12**
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Sub-Total	100.00							
	AD-HOC 11%	11.00							
	Total	**111.00**							
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	for Drain		1	114.00	0.80	0.15	13.68		
	for Culverts		2	6.00	1.60	0.15	2.88		
					Total Qty		**16.56**	5726.51	**94831.04**
	Basic Rate	4867.00							
	AD-HOC 11%	535.37							
	Sub-Total	5402.37							
	Area Weightage @ 6%	324.14							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Total	**5726.51**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
	for Drain	Cum							
	bed		1	114.00	0.80	0.15	13.68		
	side wall		2	114.00	0.15	0.60	20.52		
					Total Qty		**34.20**	12246.05	**418815.01**
	Basic Rate	10408.00							
	AD-HOC 11%	1144.88							
	Sub-Total	11552.88							
	Area Weightage @ 6%	693.17							
	Total	**12246.05**							
5	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)								
		Cum							
	for culverts	2	2	6.00	0.60	0.80	11.52		
					Total Qty		**11.52**	4926.42	**56752.41**
	Basic Rate	4187.00							
	AD-HOC 11%	460.57							
	Sub-Total	4647.57							
	Area Weightage @ 6%	278.85							
	Total	**4926.42**							
	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications (Page No.112/Item No. 15.1)								
		Sqm							
	for Culverts	2	2	6.00		0.80	19.20		
					Total Qty		**19.20**	114.13	**2191.30**
	Basic Rate	97.00							
	AD-HOC 11%	10.67							
	Sub-Total	107.67							
	Area Weightage @ 6%	6.46							
	Total	**114.13**							
	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2.(P No. 13 / Item No.4.7)								
	for culverts	Cum							
	Coping	2	2	6.00	0.60	0.10	1.44		
	vent		2	6.00	0.60	0.10	0.72		
					Total Qty		**2.16**	6214.80	**13423.97**

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate	5282.00							
	AD-HOC 11%	581.02							
	Sub-Total	5863.02							
	Area Weightage @ 6%	351.78							
	Total	**6214.80**							
8	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne							
		50% of Qty Vide item No.4					in Qtl	17.100	
							In tonne	1.710	71310.20 121940.44
	Basic Rate	60607.00							
	AD-HOC 11%	6666.77							
	Sub-Total	67273.77							
	Area Weightage @ 6%	4036.43							
	Total	**71310.20**							
9	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	covering slab	Sqm							
	for Drain								
				1	14.00	0.75	85.50		
						Total Qty	85.50	2100.00	179550.00
10	Providing and fixing **RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	covering slab	Sqm							
	for Culverts								
				2	6.00	1.50	18.00		
						Total Qty	18.00	4402.79	79250.22
11	Miscellaneous and unforeseen charges	LS							1678.00
								Grand Total Amount	1001077.00

(Rupees Ten Lakhs Only)

CERTIFICATE

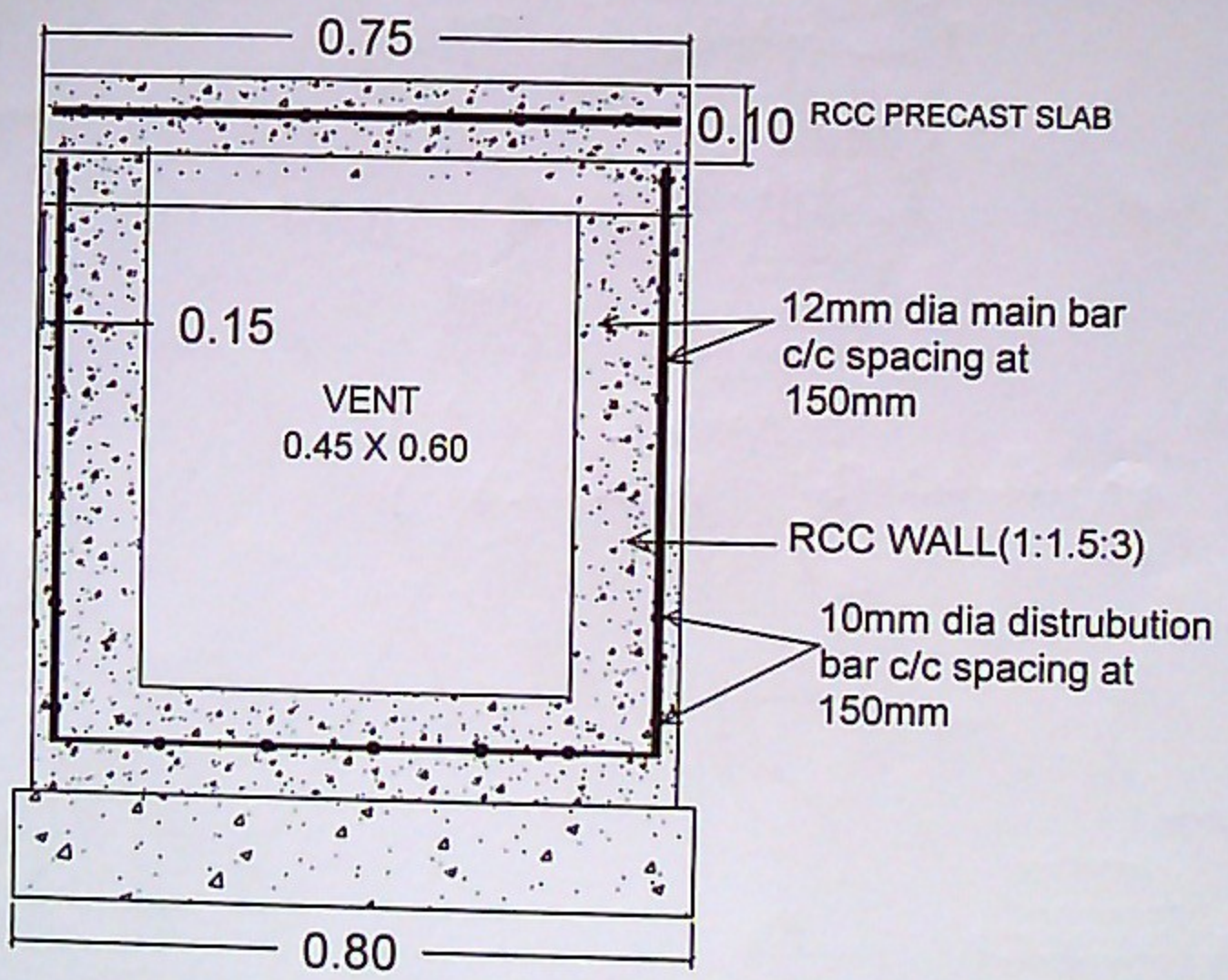
1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.01

Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS IN WARD NO.01 OF YELAHANKA SUB DIVISION



TYPICAL CROSS SECTION OF RCC DRAIN

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

YELAHANKA ZONE
WARD 1-KEMPEGOWDA WARD

©



AREA 10.7 Sq Km

No of Properties : 7284	
Apartment	1
Commercial	[illegible]
Educational Institution	15
Govt Office	[illegible]
Industrial	6
Open Space	[illegible]
Park	1
Residential/Commercial	[illegible]
Residential	[illegible]
Under Construction	[illegible]
Vacant Plot	[illegible]
Worship	[illegible]
No of Roads : 536	
Intermediate Road	[illegible]
Major Road	[illegible]
Minor Road	[illegible]
Total Length of Roads (In Meters) [illegible]	
Intermediate Road	[illegible]
Major Road	[illegible]
Minor Road	[illegible]

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore